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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,218	07/08/2003	Mitsuaki Suzuki	116475	7302
25944	7590	11/17/2004		
OLIFF & BERRIDGE, PLC P.O. BOX 19928 ALEXANDRIA, VA 22320			EXAMINER POKER, JENNIFER A	
			ART UNIT 2832	PAPER NUMBER

DATE MAILED: 11/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/614,218

Applicant(s)

SUZUKI, MITSUAKI

Examiner

Jennifer A. Poker

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AP

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 August 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 17 August 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies-not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

General Status

1. This is a second action on the merits of amendment received August 17, 2004 of application filed July 8, 2003. Claims 1-10 are pending and are being examined.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Own Admitted Prior Art in view of U.S. Patent Number 6,154,113 to Murai.

Regarding claims 1, 2, and 4, Applicant admits on page 1 of the disclosure that transformers comprising magnetic cores having two separate sections and bobbins having a magnetic wire wound there around have been known in the art. Applicant further admits that varnish impregnation is a well-known treatment for improving insulation performance of winding sections and to enhance stabilities against electrical and mechanical oscillation.

Applicant admits the claimed invention except for the spacing mechanisms.

Murai discloses a transformer assembly having bobbin structures (core housing portion), wherein the primary bobbin comprises an insertion portion for the core; the bobbin (core housing portion) provided with linear ribs extending in the longitudinal direction of its inner surface . Each

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inner surface has two ribs respectively positioned at upper and lower sides (figures 2 and 3). It can be seen in figure 3 that the ribs simply position/space and contain certain elements of the device.

One skilled in the art, at the time the invention was made, would have found it obvious to combine the teachings of the Applicant's Own Admitted Prior art and Murai and incorporate ribs on the inner walls of the insertion portion of the bobbin in order to aid in the positioning/spacing of elements (core) being inserted within the bobbin.

Regarding claim 3 and 6, Murai further illustrates in figure 2 that ribs form a symmetrical relationship along inner walls of the bobbin to aid in the positioning of elements being inserted.

Regarding claim 5, Applicant's Own Admitted Prior Art in view of Murai discloses the claimed invention except for the core spacing mechanisms being two separate dot projections. It would have been obvious to one having ordinary skill in the art to utilize different shapes of projections/ribs, since applicant has not disclosed that the dot projections solves any stated problem or is for any particular purpose and it appears that the invention would perform equally well with any shaped projection. Furthermore, applicant admits on page 5 of the disclosure that the spacing mechanisms DO NOT have to be formed into linear ridges.

Response to Arguments

4. Applicant's arguments filed August 17, 2004 have been fully considered but they are not persuasive.

In response to applicant's arguments that the ribs (7) only work as a retainer, examiner respectfully disagrees. It is clearly shown that these ribs are used to space the inserted portions from contacting the edge portions of the bobbin. See figures 1-3.

In response to applicant's arguments that Murai does not disclose a "bobbin to be made of a heat resistant plastic resin which may suffer a large dimensional change due to temperature or humidity change, but is resistant to heat deformation in consideration that the bobbin, with a magnet wire wound there around, undergoes a varnish impregnation treatment together with a magnetic core," examiner does not disagree with this assertion, however it is noted that the features upon which applicant relies (i.e., "bobbin to be made of a heat resistant plastic resin which may suffer a large dimensional change due to temperature or humidity change, but is resistant to heat") are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). Furthermore, with respect to the varnish impregnation. Applicant clearly admits on page 1 of the disclosure that transformers comprising magnetic cores having two separate sections and bobbins having a magnetic wire wound there around have been known in the art. Applicant further admits that varnish impregnation is a well-known treatment for improving insulation performance of winding sections and to enhance stabilities against electrical and mechanical oscillation.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on

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the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

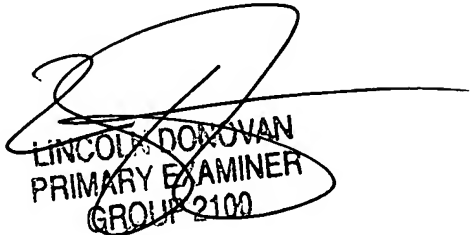
Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer A. Poker whose telephone number is 571-272-1997. The examiner can normally be reached on 4:30-3:00 Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin G. Enad can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jap
November 12, 2004


LINCOLN DONOVAN
PRIMARY EXAMINER
GROUP 2100